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SMX 3093.6 (2001-006R1)  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Gerrit Klaerner et al.

Art Unit 1645

Serial No. 10/043,394

Filed January 10, 2002

Confirmation No. 4664

For POLYMER BRUSHES FOR IMMOBILIZING MOLECULES TO A  
SURFACE OR SUBSTRATE HAVING IMPROVED STABILITY

April 11, 2002

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TO THE COMMISSIONER OF PATENTS AND TRADEMARKS,

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**INFORMATION DISCLOSURE STATEMENT**

In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicants submit copies of the references listed on the attached PTO/SB/08A for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

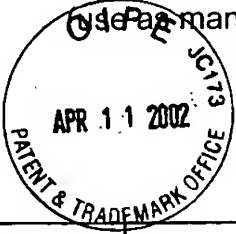
Respectfully submitted,

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PTO/SB/08A		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Use as many sheets as necessary)  		Application Number	10/043,344		
		Filing Date	January 10, 2002		
		Confirmation Number	4664		
		First Named Inventor	Gerrit Klaerner et al.		
		Group Art Unit	1645		
		Examiner Name			
Sheet	1	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)

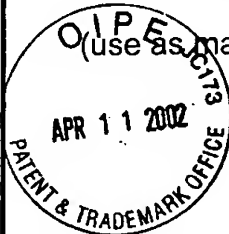
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
	1	4,581,429		Solomon et al.	04-08-1986
	2	4,946,778		Ladner et al.	08-07-1990
	3	4,973,493		Guire	11-27-1990
	4	5,002,582		Guire et al.	03-26-1991
	5	5,030,697		Hugl et al.	07-09-1991
	6	5,126,021		Grossman	06-30-1992
	7	5,143,854		Pirrung et al.	09-01-1992
	8	5,217,492		Guire et al.	06-08-1993
	9	5,240,602		Hammen	08-31-1993
	10	5,258,454		Berg et al.	11-02-1993
	11	5,424,186		Fodor et al.	06-13-1995
	12	5,436,327		Southern et al.	07-25-1995
	13	5,445,934		Fodor et al.	08-29-1995
	14	5,480,723		Klainer et al.	01-02-1996
	15	5,512,329		Guire et al.	04-30-1996

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Sheet	2	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)


	16	5,512,439		Hornes et al.	04-30-1996
	17	5,530,079		Veregin et al.	06-25-1996
	18	5,539,082		Nielsen et al.	07-23-1996
	19	5,624,711		Sundberg et al.	04-29-1997
	20	5,677,195		Winkler et al.	10-14-1997
	21	5,700,637		Southern	12-23-1997
	22	5,744,305		Fodor et al.	04-28-1998
	23	5,753,439		Smith et al.	05-19-1998
	24	5,770,456		Holmes	06-23-1998
	25	5,800,992		Fodor et al.	09-01-1998
	26	5,807,522		Brown et al.	09-15-1998
	27	5,824,473		Maede et al.	10-20-1998
	28	5,837,832		Chee et al.	11-17-1998
	29	5,846,724		Bensimon et al.	12-08-1998
	30	5,858,653		Duran et al.	01-12-1999
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	34	5,919,523		Sundberg et al.	07-06-1999
	35	5,919,626		Shi et al.	07-06-1999

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	36	5,932,711		Boles et al.	08-03-1999
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	46	6,045,996		Cronin et al.	04-04-2000
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	49	6,077,674		Schleifer et al.	06-20-2000
	50	6,083,697		Beecher et al.	07-04-2000
	51	6,087,102		Chenchik et al.	07-11-2000
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	53	6,087,186		Cargill et al.	07-11-2000
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FOREIGN PATENT DOCUMENTS							
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		Office	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
	55	WO	89/02449	A1	Thies Karsten, Heuck Claus-Christian	03-23-1989	
	56	WO	90/05303	A1	Pharmacia AB	05-17-1990	
	57	WO	96/24620	A1	Elf Atochem S.A.	08-15-1996	
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	59	WO	98/30601	A2	E.I. Du Pont De Nemours & Co.	07-16-1998	
	60	WO	99/03894	A1	Ciba Specialty Chemicals Holding, Inc.	01-28-1999	
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	63	WO	99/61653	A2	Syntrix Biochip	12-02-1999	
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	65	WO	00/33084	A2	Syntrix Biochip, Inc.	06-08-2000	
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	67	EP	0 205 232	A1	Kelsius, Inc.	12-17-1986	

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	68	EP	0 361 229	A2	Bayer AG	07-09-1991	
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	71	EP	1 081 163	A1	Affymetrix, Inc.	03-07-2001	

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	72	ANDERS et al. "Surface Modification with Hydrogels via Macroinitiators for Enhanced Friction Properties of Biomaterials" J.M.S. - Pure Appl. Chem. Vol. A36, Nos. 7&8 (1999) pp. 1017-1029.	
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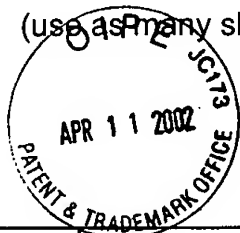
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	92	HAWKER et al. "Manipulation of Surface Properties Using Novel Grafted Copolymer Brushes and Surface-Initiated Polymerization" 218th ACS National Meeting, Abstracts of Papers, Part 2, New Orleans, LA (8/1999) Abstract 345-POLY.	
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	101	HUANG et al. "Surface-Initiated Radical Polymerization on Porous Silica" Analytical Chemistry, Vol. 69, No. 22 (1997) pp. 4577-4580.	
	102	HUANG et al. "Surface Initiation of Living Radical Polymerization for Growth of Tethered Chains of Low Polydispersity" Macromolecules, Vol. 32, No. 5 (1999) pp. 1694-1696.	


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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)



Complete if Known

Application Number	10/045,094
Filing Date	January 10, 2002
Confirmation Number	4664
First Named Inventor	Gerrit Klaerner et al.
Group Art Unit	1645
Examiner Name	

Sheet	9	of	12	Attorney Docket No.	SMX 3093.6 (2001-006R1)
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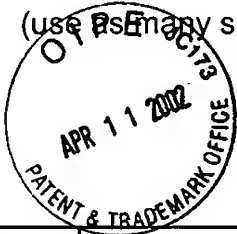
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary) <div style="text-align: center;">  </div>				Application Number	10/043,394
				Filing Date	January 10, 2002
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				First Named Inventor	Gerrit Klaerner et al.
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